

Apple II Historical Documents

Charlie Anderson

http://www.scruz.net/~canderso/my_apple_shrine.htm charlie@charlieanderson.com 15 September 2000

Letter from Steve Jobs:

APPLE COMPUTER, INC 770 Welch Road Palo Alto, CA 94304 (415) 326-4248

11 January 1977

Richard Hernland Electro-Tex PO Box 66907 Huston, TX 77006

Richard Hernland,

Here is the information you requested. Enclosed are the manuals for both the main board and the Cassette Interface board. As per our conversation, the wholesale prices for quantities 10-24 are listed below. We offer these discounts to first time dealers for quantities of 5 or more.

	Retail	Wholesale	% discount
Apple-I with 4k RAM	\$666.66	500.00	25%
Cassette Interface	75.00	56.25	25%
Additional 4k RAM	120.00	80.00	33.33%

We pay shipping UPS. Delivery is usually off-the-shelf, although sometimes stretches out to a week ARO.

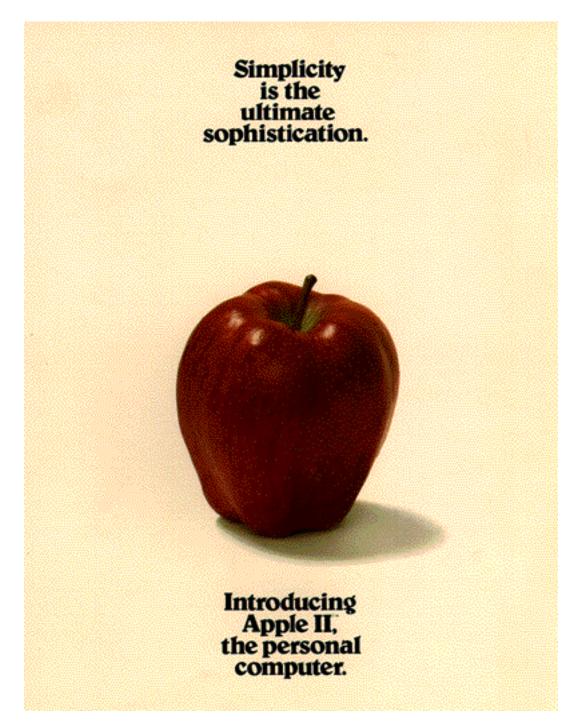
We request payment in advance for our first dealings, and for subsequent sales can offer first limited credit extending in time to NET 30 days.

I look forward to hearing from you soon.

Respectfully yours,

Steven Jobs

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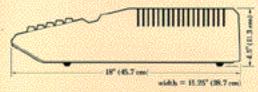


Apple II ad -- page 2:



Apple II ad -- page 3:





Apple II in a complete, self-contained, ready to use computer, Standard features include EASIC and Monitor in ROM (8K bytes), Color Graphics, up-to-48K bytes RAM 44K included), cassette interface, Apple GAME I/O connector, typewriter style ASCII leyboard, high-efficiency switching power supply and plastic micled case. Also included as stindard are 1 demonstration cassette tape, two game paddle controllers and detailed operations manual.

MICROPROCESSOR:

6502 operating at 1 MHz clock

VIDEO DISPLAY

The Apple II video display section displays memory as either text, color graphics, or high-resolution graphics (completely transparent memory access). Both graphics modes can be selected to include 4 lines of text at the bottom of the display area. All display modes are software software infectable. In addition, the user can select under software one of two memory blocks to be displayed.

- 40 characters/line, 24 lines.
- 5 x 7 upper case characters.
- Normal, inverse or flushing characters. Extensive display control software in EOM.

- Full corner control. Fast display -- 1000 cps.

- Color Graphies
 40h x 48v resolution or 40h x 48v with 4 lines text.
- 15 colors color generated digitally.
 BASIC commands to use graphics easily: COLOR ⇒, PLOT x, y, BLIN, VIIN SCRN.

 High Resolution Graphics

 280 h x 1929 resolution or 280 h x 150 v with 4 lines text.

 4 colors—black, white, violet, green.

 Displays 8% bytes (requires 12K minimum RAM).

MEMORY

MEMORY

RAM is organized into 3 increments. Each increment can be either

4K bytes using 4K chips or 16K bytes using advanced 16K chips.

Memory may be easily increased by inserting an additional increment of chips. From 4K to 46K bytes of RAM can be contained on
the single board. 8K bytes of ROM are supplied which permanentby store Apple RASIC 16K1 and a powerful system receive 12K).

Two additional BOM sockets are provided for future Apple software.

Up to 44K bytes on board RAM—no peripheral memory boards?

Unities automatic RAM onlines system, completely transparent.

East 4066-23lid trees 4K and 416-215 trees 16K RAM.

- Uses 4096, 2184 type 4K and 4116, 2136 type 16K RAMs. Fast memory 358ns access time.

Apple II includes as standard an ASCII keyboard, audio casse interface, 8 perigheral board connectors, speaker, Apple GAME I/O connector and two game paddle controllers.

- Reliable typewriter style keyboard. Fast causette interface—1500 bps.
- Peripheral board connectors: -fully buffered busses & timing
- chained interrupt and DMA priority structure
- GAME I/O-4 paddle inputs, 3 TTL inputs and 4 TTL outputs.

Apple BASIC is an integer BASIC supplied in 6K bytes of 80M and includes the following features on addition to normal basic features:

Apple BASIC is a fast translated BASIC.

- Any length variable names (ALPHA, BETAS).
- Syntax and range errors indicated inmediately when entered.
- Multiple obstervents on one line.
- Integers from = 32767 to +32767. String arrays to 255 characters. Single dimension integer arrays.
- Graphics Commands: COLOR=expr. FLOT, HLIN (draw horisontal line), VLIN, SCRN (x, y) (reads the screen color).
- Padcle read function: PDC (6-3). TEXT and Graphics Commands set display mode from BASIC. Immediate execution of most statements
- Momory boundary adjust (does not destroy current program).

 Ereak and Continue program execution.

 Debug commands: Eine number trace and variable trace.

 Switchable L/O device assignments.

 Direct memory access PEEE, PORE, CALL commands.

 Causette SAVE and LOAD commands.

- Auto line number mode. RND, SGN, ASC, LEN and ABS functions.
- POP instruction pops the return stack one level. GOTO expt; GOSUR expr allowed.

- 2K byte ROM monitor
- Screen control tintriligent display mutinest. Pull nurser control.
- Scroling window adjustable (protected screen feature). Software simulated single-step and trace modes.
- Software simulated 16-bit processor. Dis-assembler and mini-assembler
- Input/Output device assignment. Editing on keyboard entry.
- Floating point package. Breakpoint handling.
- Register examine/modify.
- Read/Write cassette routines
- Hex add/subtract for relative branch



Due to our continuing program of product improvement, specifications are subject to change without notice. Printed in U.S.A. 477

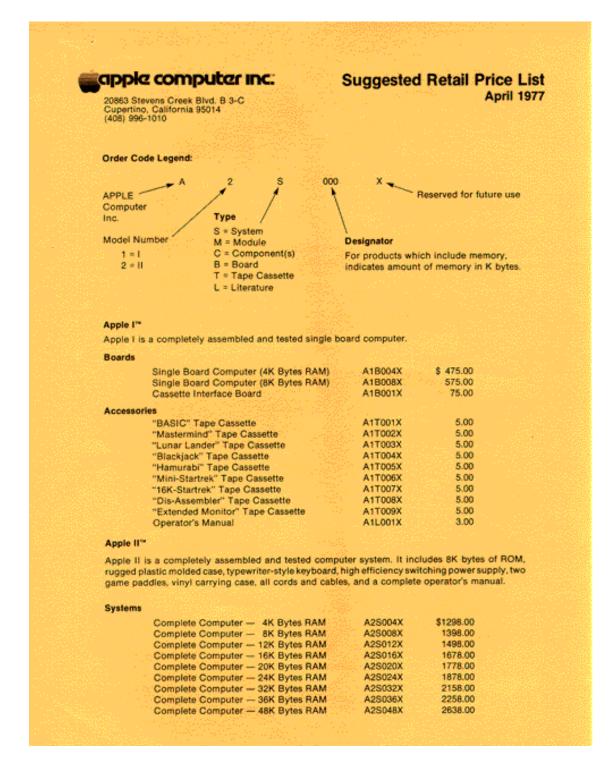
Apple II early owner's manual ("red book"):



Apple II AppleSoft BASIC reference manual:



Apple II dealer price list:



THE END